Practice Question Set For GCSE
Subject : Biology
Paper-1 Topic: B4 Bioenergetics

Merit Minds
www.merit-minds.com
Exam Preparation and Free Resources

Name of the Student:_____
Max. Marks : 22 Marks **Time : 22 Minutes**

Mark Schemes

Q1.

X – oxygen

accept O_2

Y – carbon dioxide

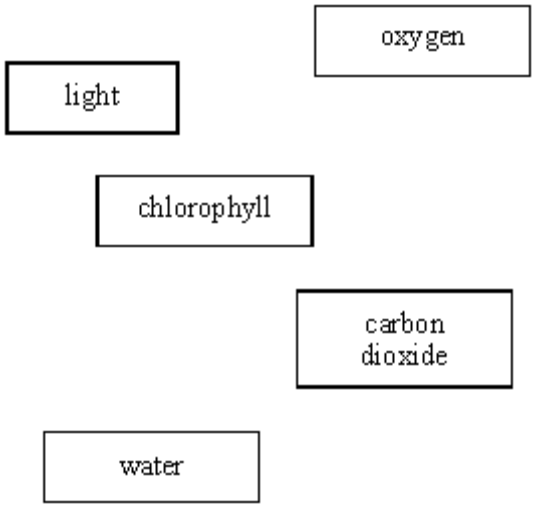
accept CO_2

[2]

Downloaded from www.merit-minds.com

Q2.

(a)



5

(b) (i) sugar **or** carbohydrate

1

(ii) it can be stored **or** it is insoluble

accept it has no osmotic effect

1

(iii) any **one** from:
respires it **or** releases **or** transfers energy
turns it **or** stores it as fructose **or** sucrose **or** lipid **or** protein **or** cellulose

1

(c) (i) photosynthesis

1

(ii) any **one** from:
flat surface
stomata
thin
chloroplasts
veins
large surface area
air spaces

*do **not** accept chlorophyll*

1

[10]

Downloaded from www.merit-minds.com

Q3.

(a) carbon
water
oxygen

light

chlorophyll

starch

1 *mark each*

6

(b) leaf **(or** named part of leaf)
or
chloroplasts

accept anywhere green

do not credit chlorophyll unless qualified

1

(c) water through the roots
or
root hairs
or
by osmosis

*do **not** credit where the candidate is unclear about which is which*

1

CO_2 through the leaf
or
stomata
or
by diffusion

1

(d) any **one** point:

increased CO_2 concentration
increased water supply
increased temperature (up to a point)
increased light (intensity)

*accept altered light quality by less green **or** increasing other colours*

accept increased duration of exposure to light

*do **not** credit sun **or** sunshine*

accept CO_2 from respiration

1

[10]

Downloaded from www.merit-minds.com